

Management System For Avara Network Elements

ASPeCT is a modular Management System enabling the provisioning, monitoring and maintenance of networks and services based on Avara Network Elements. ASPeCT provides scalable and unified management solution for operation of network and services across PDH, SDH, IP/Ethernet and MPLS networks.

It supports inventory management, node management, performance monitoring, end to end service provisioning and circuit visualisation. ASPeCT's intuitive graphical user interface provides a simple and easy-to-manage system for comprehensive network management.

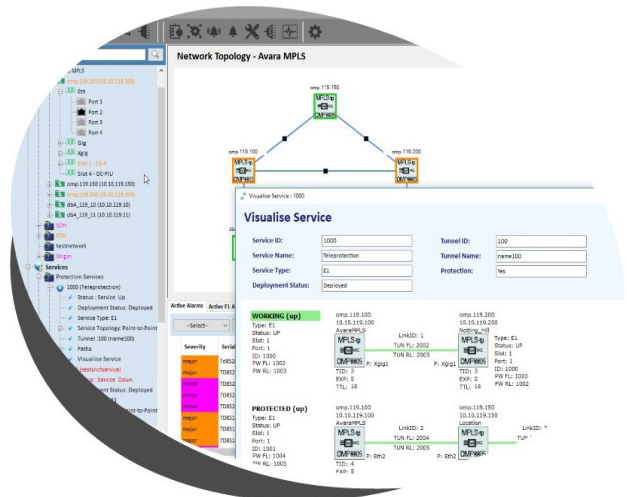
Built for Windows platforms, ASPeCT adopts a client/server architecture for multi-user support. Different user profiles and groups can be created to provide secure and authorised access control with read and/or write for different sub maps and regions.

Alarm and event management is a key feature that allows network operators visibility of network faults as well as for implementing audit trails for security purposes.

ASPeCT provides support for network operators for device configuration, alarm management, handling of information, backing-up & restoring of configuration, event logging and maintenance of hardware and software in the network.

ASPeCT also provides northbound APIs to inter operate with industry standard OSS systems.

ASPeCT supports multiple views to assist network operators including equipment views as well as service views giving network operators a clear view of the overall network status and its service states.



Technical Highlights

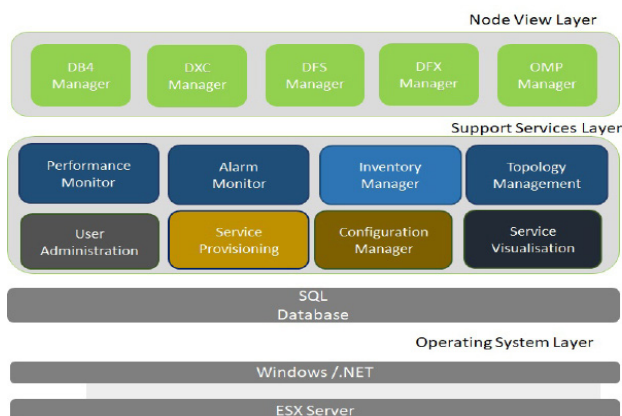
- Delivers FCAPS functionality for centralised network operations & management
- North Bound interface for communicating with higher level Network Management Systems and Operations Support Systems
- Integrated database & reporting capability

Key Features

- Comprehensive alarm & event management
- Performance management
- End to end circuit provisioning
- Circuit visualisation
- Network equipment view
- Network service view
- Inventory management
- Audit trails
- User access management
- Easy to use graphical interface
- Single SQL database simplifies all reporting and analysis
- Redundant server support
- Multi-user & multi terminal capability
- Runs on Microsoft® Windows® Platforms
- Hierarchical Architecture Support

Technical Specifications

- Server Operating System: Windows 7/10/ Server 2008 and above
- Database: Microsoft SQL Server 2008 and above
- SNMP Versions Supported: V1/V2c/V3



Management Views

ASPeCT provides network operators with a number of views to facilitate network and service management. The Network View shows all network elements in the database hierarchically organised in user defined groups. The Service View shows all network services again arranged in user defined groups.

Fault Management

All events and alarms generated by NEs are displayed on the Alarm & Event panel. Both current alarms as well as historical alarms can be viewed through these views. All alarms and events are also logged into an SQL database and can be retrieved, filtered and exported to simplify fault analysis. ASPeCT also provides link alarm to network service correlation simplifying the fault management process.

Configuration Management

ASPeCT supports a series of node managers to facilitate Avara network element configuration. All node managers provide easy to use graphical user interfaces and are intuitive in nature. All changes made through the node managers are saved in the database for auditing purposes.

Administration & Audit Trails

With comprehensive event logging capabilities, ASPeCT tracks and logs network element related activity to the database providing audit trails for security purposes. There is also an inbuilt user management function allowing network operators to control and assign appropriate privileges to user accounts. Additionally, an extensive set of logs are available to admin users which includes access logs, session logs, NMS activity logs and database rollback logs. These logs can be exported for further filtering and analysis purposes. All recorded system events and alarms are timestamped for traceability. All records are maintained indefinitely until deleted.

Inventory Management

The inventory management function allows network operators access to real time information on network assets including serial numbers, hardware & software versions, installed location and any other information supported by the network element. This information is retained within the database, and can be exported in csv format to interface to other systems.

Performance Monitoring

ASPeCT supports performance monitoring at service levels, link levels as well as at sensor levels. Network operators can select multiple performance monitoring points through the GUI with all performance data saved to the database. Additionally, system resources are monitored with event generation capabilities.

Service Provisioning & Visualisation

ASPeCT provides intuitive mechanisms for service creation and visualisation. End to end service creation function is supported to assist network operators establish services by simply identifying the end points. Visualisation of existing services is also supported to assist in fault finding and to ascertain network utilisation.

Security

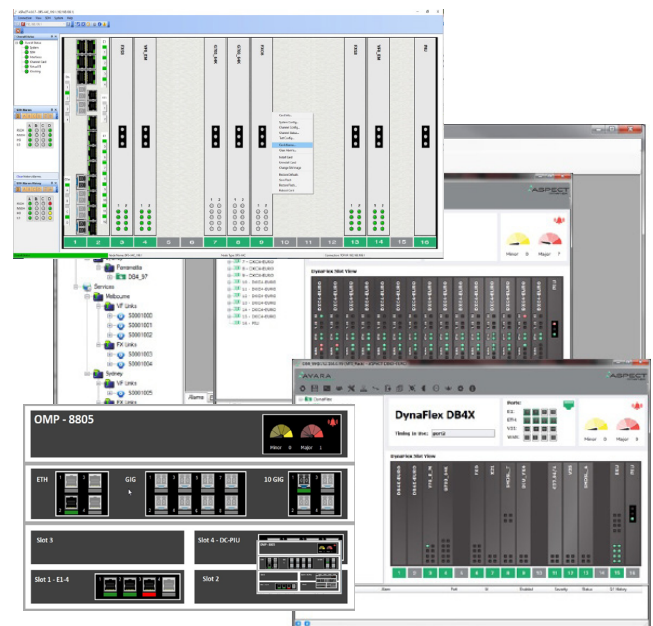
ASPeCT together with the Avara Network Elements support a number of user profiles for node management and control. Created users have a single sign on and can be mapped to an appropriate profile and authenticated using RADIUS or active directory servers using LDAP. All data stored, including backup data, is encrypted to ensure privacy at rest and in transit. All communications between ASPeCT and Avara NEs can be secured by full encryption or through signed transactions ensuring that only authorised personnel has the ability to make changes to the elements in the network.

Notifications and Northbound Interfaces

ASPeCT supports Notifications and Northbound Interface options for integration into higher-level management systems, such as NetCool and HPOV.

Northbound integration is provided through:

- Extensible Markup Language (XML)
- File Transfer Protocol (FTP & SFTP)
- SNMP (v2 & v3)
- SysLog
- RADIUS



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